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                                 **  *. .*  .*       . :                         :                .  *    :    : .      : *      .****:*::*  :*:** **:*::::::*      *.*** .
gi|70794811|ref|NP_033297.2|     MGSNKSKPKDASQRRRSLEPSENVHG------AGG-AFPASQTPSKPA---------SADGHRGPSAAFVPP-AAEPKLFGGFNSSD-TVTSPQRAGPLAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNTRKVDVREGDWWLAH   150
gi|14010835|ref|NP_114183.1|     MGSNKSKPKDASQRRRSLEPAENVHG------AGG-AFPASQTPSKPA---------SADGHRGPNAAFVPPAAAEPKLFGGFNSSD-TVTSPQRAGPLAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNTRKVDVREGDWWLAH   150
gi|73991938|ref|XP_542988.2|     MGSNKSKPKDASQRRRSLEPAENTHG------GGGGAFPTSQTPSKPA---------SADGHRGPSTAFPSA-AAEPKLFGGFNSSD-TVTSPQRAGPLAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNTRKVDVREGDWWLAH   150
gi|4885609|ref|NP_005408.1|      MGSNKSKPKDASQRRRSLEPAENVHG------AGGGAFPASQTPSKPA---------SADGHRGPSAAFAPA-AAEPKLFGGFNSSD-TVTSPQRAGPLAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNT------EGDWWLAH   150
gi|114681914|ref|XP_001141228.1| MGSNKSKPKDASQRRRSLEPAENVHG------AGGGAFPASQTPSKPA---------SADGHRGPSAAFAPA-AAEPKLFGGFNSSD-TVTSPQRAGPLAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNT------EGDWWLAH   150
gi|160837865|ref|NP_001104274.1| MGSNKSKPKDASQRRRSLESAENTHGGGGGGGGGGGAFPSSQTPSKPA---------SSDGHRGPNTAFAPA-AAEPKLFGGFNSSD-TVTSPQRAGPLSGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNT------EGDWWLAH   150
gi|118100523|ref|XP_001232485.1| MGSSKSKPKDPSQRRRSLEPPDSTHH-------GG--FPASQTPNKTA---------APDTHRTPSRSFGTV-ATEPKLFGGFNTSD-TVTSPQRAGALAGGVTT--FVALYDYESRTETDLSFKKGERLQIVNNT------EGDWWLAH   150
gi|99028938|ref|NP_001003837.2| MGGAKSKPKELGQRSRSLDDGTGGHH-------HHTPNPTSFTPNRSP---------PVEGSRRGTQPNIIN--AEQALFGGVNSTTNSITSPNRIG-ILGGVTT--FVALYDYESRTASDLSFRKGERLQIVNNT------EGDWWLAR   150
gi|24657868|ref|NP_524934.2|     MG-NKCCSKRQDQELALAYPTGGYKK-------SDYTFGQTHINSSGGGNMGGVLGQKHNNGGSLDSRYTPDPNHRGPLKIGGKGGVDIIRPRTTPTGVPGVVLKRVVVALYDYKSRDESDLSFMKGDRMEVIDDT------ESDWWRVV   150
gi|58388789|ref|XP_316537.2|     MG-NKCCSKRQDQELALAYP-GGYKK-------GDSSFNS---NLSGG--------PKHNNGGSIDSRYTPDPN-RGQLIKHPKGGVDIIRPRTTPL-LPGHNTRRIVVALYNYNAREETDVSFVKGDRMEVLDDT------ESDWWRVV   150
                                 1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150

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gi|70794811|ref|NP_033297.2|     SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|14010835|ref|NP_114183.1|     SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|73991938|ref|XP_542988.2|     SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|4885609|ref|NP_005408.1|      SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|114681914|ref|XP_001141228.1| SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGTSALSIHVEPCIYEQSCSHVRVRTLCACGFHMHPPGPSTRLTAPPASSSEHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|160837865|ref|NP_001104274.1| SLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|118100523|ref|XP_001232485.1| SLTTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNPENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFSSLQQLVAYYSKHADGLCHRLTNVCPTSKPQTQGLA---KDAWEIPRESLRL   300
gi|99028938|ref|NP_001003837.2| SLTTGESGYIPSNYVAPSDSIQAEEWYFGKITRRDSERLLLNMENRRGTFLVRESETTKGAYCLSVLDYDNVKGLNVKHYKIRKLDSGGFYITSRTQFSTLQQLVNHYRQHADGLCHSLTDVCPVLKPPTQGLA---RDAWEIPRDSLRL   300
gi|24657868|ref|NP_524934.2|     NLTTRQEGLIPLNFVAEERSVNSEDWFFENVLRKEADKLLLAEENPRGTFLVRPSEHNPNGYSLSVKDWEDGRGYHVKHYRIKPLDNGGYYIATNQTFPSLQALVMAYSKNALGLCHILSRPCPKPQPQMWDLGPELRDKYEIPRSEIQL   300
gi|58388789|ref|XP_316537.2|     HLKTRQEGLIPWNFVAEDRSVNSEDWFFENVSRKEADKLLLANENPRGTFLVRPSEHNPNGFSLSVKDWEESRGYHVKHYKIKPLDNGGYYIATNQTFPSLPALVMAYSKNALGLCHVLSSPCPKPQPQVWDLGPELRDKWEINRNEIQL   300
                                 .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300

                                   ***:* ****: *.*...  **:***: ****. ****** :***:**.:** **** * ******* ***.:*******:   *: *:: :*: :::*:**** *:*  : :**** * *:*:*:.  *.*:.******:* *:** .
gi|70794811|ref|NP_033297.2|     EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMNKGSLLDFLKGETGKYLRLPQLVDMSAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|14010835|ref|NP_114183.1|     EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMNKGSLLDFLKGETGKYLRLPQLVDMSAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|73991938|ref|XP_542988.2|     EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMSKGSLLDFLKGETGKYLRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|4885609|ref|NP_005408.1|      EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMSKGSLLDFLKGETGKYLRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|114681914|ref|XP_001141228.1| EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMSKGSLLDFLKGETGKYLRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|160837865|ref|NP_001104274.1| EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMSKGSLLDFLKGETGKYLRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGESLVCKVADFGLARLIEDNEYTA   450
gi|118100523|ref|XP_001232485.1| EVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMSKGSLLDFLKGEMGKYLRLPQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTA   450
gi|99028938|ref|NP_001003837.2| DVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVS-EEPIYIVTEYMGQGSLLDFLKGDMGKMLRLPQLVDMASQIASGMAYVERMNYVHRDLRAANILVGDNLVCKVADFGLARLIEDNEYTA   450
gi|24657868|ref|NP_524934.2|     LRKLGRGNFGEVFYGKWRNSIDVAVKTLREGTMSTAAFLQEAAIMKKFRHNRLVALYAVCSQEEPIYIVQEYMSKGSLLDFLREGDGRYLHFEDLIYIATQVASGMEYLESKQLIHRDLAARNVLIGENNVAKICDFGLARVIADDEYCP   450
gi|58388789|ref|XP_316537.2|     IRKLGHGNFGEVYYGKWRNNIEVAVKTLREGTMSTQAFLQEAAIMKKFRHSRLVALYAVCSKEEPIYIVQEYMSKGSLLDFLRTGDGQFLQFEDLIYIAAQVASGMEYLELKQLIHRDLAARNVLIGENNVAKICDFGLARVIADDEYCP   450
                                 .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450

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gi|70794811|ref|NP_033297.2|     RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|14010835|ref|NP_114183.1|     RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|73991938|ref|XP_542988.2|     RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|4885609|ref|NP_005408.1|      RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|114681914|ref|XP_001141228.1| RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|160837865|ref|NP_001104274.1| RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKDPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|118100523|ref|XP_001232485.1| RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPP--ECPESLHDLMCQCWRKDPEERPTFEYLQAFLEDYFTSTEPQYQPGENL   567
gi|99028938|ref|NP_001003837.2| RQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPA--ECPDSLHELMLTCWRKEPEERPTFEYLQGFLEDYFTSTEPQYQPGENL   567
gi|24657868|ref|NP_524934.2|     KQGSRFPVKWTAPEAIIYGKFSIKSDVWSYGILLMELFTYGQVPYPGMHSREVIENIERGFRMPKPTNHYFPDNIYQLLLQCWDAVPEKRPTFEFLNHYFESFSVTSEVPYREVQD-   567
gi|58388789|ref|XP_316537.2|     KQGSRFPVKWTAPEAIVYGKFSIKSDVWSYGILLMELFTYGQVPYPGMHSREVIEQIERGYRMPKPTAHHLPDDIYSLMLKCWDAIPDKRPTFEFLNHYFQNFTITSEVPYREVQD-   567
                                 .......460.......470.......480.......490.......500.......510.......520.......530.......540.......550.......560.......
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